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A Test of By-catch Reduction Devices on Commercial Crab Pots in a Tidal Marsh Creek in Virginia

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A Test of By-catch Reduction Devices on

Commercial Crab Pots in a Tidal Marsh Creek in Virginia

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by

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Abstract

The effectiveness of by-catch reduction devices (BRDs) on commercial pots designed to capture blue crabs *Callinectus sapidus* was tested in the York River on Felgates Creek (37.2667 N, -76.5850 W) over the period 4 June through 31 July 2009. For each of 10 pairs of pots, one had BRDs affixed to all four entrance gapes and the other had none. Pots were baited approximately once each week, but were sampled for blue crabs and by-catch six of seven days each week for the duration of the study. More than one-fourth of 1643 total crabs were caught on the first day after baiting, and for these seven days, no statistical difference was detected between either the number or size of legal size crabs caught in BRD versus non-BRD pots. Of 51 *Malaclemys terrapin* and 44 fish caught as by-catch throughout the study, all but three fish were captured in non-BRD pots. BRDs exclude by-catch, and appear to reduce incidental mortality of crabs in pots that are not tended regularly.

Key Words: diamondback terrapin; excluder; recreational crabbing

Introduction

The diamondback terrapin *Malaclemys terrapin* is the only fully estuarine turtle in the Western Hemisphere, occurring in coastal habitats from Massachusetts to the Gulf Coast of Texas (Ernst and Lovich 2009). Low numbers or measured declines in population sizes from various threats throughout their range have prompted many states to list terrapins as endangered, threatened, or a species of special concern (Butler et al. 2006). Because the economies of many of these same states are bolstered by the harvest of the blue crab *Callinectus sapidus*, extensive use of commercial pots to catch crabs has led to by-catch mortality of terrapins (Wood 1997; Roosenburg and Green 2000; Hoyle and Gibbons 2000; Butler and Heinrich 2007; Dorcas et al. 2007; Grosse et al. 2009; Rook et al. in press). New York, New Jersey, Maryland, and Delaware now require a version of a terrapin excluder device on certain commercial pots to reduce that source of mortality, but enforcement is difficult (Roosenburg 2004).

Terrapins typically spend most of their lives in shallow water adjacent to tidal wetlands, so during the summer only a small portion of the crab fishery spatially intersects with turtle habitat (but see Roosenburg 2004). Within that shallow water habitat, however, one recognizes at least four possible sources of commercial pots. First, some commercial hard-shell crabbers may run lines of pots along the mainstem of small tidal creeks, with daily baiting and harvesting. Second, commercial crabbers during a short period may run "peeler pots" baited with male crabs to attract female crabs ready to shed their shells prior to mating. Crabbers focus their effort in the relatively protected habitat of small tidal creeks where peelers concentrate. Third, many recreational crabbers place one or two commercial-type pots in shallow tidal waters near their waterfront property homes. Baiting and checking of

recreational pots may be infrequent. Finally, when hard-shell crab pots placed in deeper water break free from their moorings or are abandoned, they may be carried by storms or tidal currents into shallow-water habitat. Though they are never baited, these ghost or derelict pots are potential, chronic causes of by-catch mortality (Roosenburg 1991; Guillory and Prejean 1998; Havens et al. 2008).

In most states where required, regulations to install by-catch reduction devices (BRDs) on crab pots have targeted recreational crabbers, but clearly crab pots from other users are either fished or end up in shallow water habitat where terrapins are most abundant. For the present study I designed an experiment to test BRD function in a brackish marsh complex. My objective was to complete the first test of BRDs in Virginia shallow sub-tidal waters where recreational, peeler, and derelict crab pots are located. By baiting pots at infrequent intervals, I was also able to assess the potential influence of some recreational pots (that are re-baited infrequently) and derelict pots (that are never re-baited) on crab catch and terrapin by-catch.

Materials and Methods

Study Area

The experiment was conducted over the period beginning 4 June 2009 and ending 31 July 2009, with all sampling completed in the upper reaches of Felgates Creek, a mesohaline tidal marsh creek connected to the York River, on the Yorktown Naval Weapons Station (37.2667 N, -76.5850 W). The surrounding wetland complex is dominated by the marsh grass *Spartina alterniflora*. Commercial and recreational crabbing have not been allowed in Felgates Creek for over 40 years (Rook et al. in press).

By-catch Experiment

Ten pairs of commercial crab pots (galvanized steel with no cull rings) were placed in the subtidal portions of Felgates Creek, to an approximate depth of 60 cm at mean low water so that the pots were submerged at all times. This shallow sub-tidal zone is where many recreational crab pots are placed, and where some derelict and abandoned pots get carried by wave and current action. To ensure that terrapins did not drown when captured, all pots were fitted with sealed poultry wire "chimneys" that extended 120 cm above the top of the pot. During high tide, captured terrapins swam up the chimney to the water surface to breathe.

For each pair of commercial pots, one pot was fitted with 12 x 4.5 cm BRDs (TopME© Products) attached near the interior end of the funnel of all four gapes; the other pot was not fitted with BRDs. My sampling strategy was designed to test the effect of BRDs and the impact of infrequent pot baiting on crab catch and by-catch. Although sampling of pots was completed six days per week, pots were baited with fresh gizzard shad (*Dorosoma cepedianum)* on average once each week for seven weeks during summer 2009. I chose this experimental design because many recreational crabbers bait and/or check their pots infrequently; further, abandoned pots are not tended at all, so the catch obtained after many days without fresh baiting also is a potential proxy for pots that have been lost. The effects of self-baiting on crab capture by abandoned pots, however, was not tested in this study.

When sampling, every organism caught in a pot was identified and recorded. Crabs were sexed and point-to-point carapace width was measured using a sliding caliper. Legal size crabs were those with carapace widths exceeding 12.5 cm. Each captured turtle was sexed and measured for carapace width and shell depth. Finally, every newly captured turtle was marked by filing a unique series of notches in the marginal scutes (Cagle 1939);

recaptures were noted. The number of fish in each pot was recorded and all live by-catch was set free. Any dead fish remaining in pots were removed.

Terrapin Population Estimate

In addition to pots placed in the sub-tidal creeks, 10 commercial pots fitted with 60-cm chimneys were placed in small intertidal channels of the vegetated marsh. These pots remained unbaited throughout the same study period as the BRD experiment and were sampled approximately six days each week of the study. All newly captured terrapins were sexed and measured for carapace width and shell depth, marked with a unique code using the notching technique and then released at the point of capture. Re-captures were noted, and population size was estimated using the Schnabel mark-recapture method (Krebs 1989).

Data Analysis

All capture data were tested for normality using Shapiro-Wilk tests and found to be non-normally distributed. Because no transformation led to normalization of the data, non-parametric tests comparing crab catch and crab sizes in BRD versus non-BRD pots were completed using Mann-Whitney U tests. By-catch differences as a function of bait day were tested using Kruskal-Wallis analysis of variance. As noted by Kasuya (2010) in order for non-parametric tests of significance to hold, data sets must be symmetric. For all tests, the significance criterion was $p < 0.05$.

Results

By-catch Experiment

Throughout the 46 pot sampling days, 1634 total crabs (including 25 found dead) were caught, of which 679 were of legal size; male crabs comprised 93% of the total catch and 96% of the legal size catch (Table 1). Likely causes of death were predation by other crabs and turtles. Catch per unit effort (CPUE) for total and legal size crabs was highest on the first sampling date following pot baiting (Fig. 1). Over 25% of total crabs were caught on the first day after baiting (Table 1). For these seven sampling days immediately after pot baiting neither the difference in average ± SD CPUE (2.86 ± 2.02 versus 3.33 ± 2.26 crabs) nor legal size CPUE (1.19 ± 1.35 versus 1.43 ± 1.40) was significant between BRD and non-BRD pots, respectively (Mann-Whitney U=2213.5, p=0.318 and U=2186.5, p=0.254).

Across all other days since baiting (*N*=39), both the difference in total CPUE (1.07 ± 1.16 versus 2.01 ± 1.80) and legal size CPUE (0.44 ± 0.70 versus 0.83 ± 1.08) were significant between BRD and non-BRD pots, respectively (Mann-Whitney U=76434.5, $p < 0.001$ and U=86733, $p < 0.001$). The difference in mean ± SD size of legal size crabs in BRD pots (13.30 ± 0.46 cm) and non-BRD pots (13.42 ± 0.68 cm), however, was not significant (U=51155, p=0.184).

Although crab catch varied by the number of days since pot baiting, the by-catch of terrapins was similar among sampling days irrespective of baiting (Kruskal-Wallis test, $X^2 = 11.71$, d.f. = 12, p = 0.514). All of the 51 terrapins caught as by-catch were in non-BRD pots, with 27 pots containing one terrapin, nine pots containing two terrapins, and two pots containing three terrapins. Further, a total of 44 spot (*Leiostomus xanthurus*), Atlantic croaker (*Micropogonias undulates*), and summer flounder (*Paralichthys dentatus*) were caught, 41 of which were in non-BRD pots, and all but one of which were caught beyond the first day after baiting. Similar to terrapin by-catch, fish by-catch did not vary significantly

among bait days (Kruskal-Wallis test, $X^2 = 19.46$, d.f. = 12, $p = 0.078$). No other species comprised the by-catch.

The impact of terrapin by-catch on the associated crab catch in non-BRD pots on the first day after baiting was compared to the crab catch in non-BRD pots in which no terrapins were captured. For pots without terrapin by-catch (*N*=63), the total crab CPUE was 3.52 ± 2.49 crabs; for pots in which one or more terrapins were caught (*N*=7), the total crab CPUE was only 1.57 ± 1.27 crabs (Mann-Whitney U = 112, $p < 0.05$)). Likewise, more legal size crabs were caught on average in pots without terrapin by-catch (1.49 ± 1.46 versus 0.86 ± 0.90 crabs), but the difference was not significant (Mann-Whitney U = 170, $p = 0.306$).

Terrapin Population Estimate

From the unbaited commercial pots placed and sampled in the intertidal channels of small marsh creeks, 143 terrapins were caught, of which 98 were original captures and 45 were re-captures. The ratio of male:female terrapins was 2:1. Based on these data the Schnabel mark-recapture method was used to estimate a total population size of 163 terrapins with a 95% confidence interval between 124 and 227 terrapins. Finally, terrapin shell depth and carapace width from all captures were plotted to show that based on size, 92% of all female and 70% of all male terrapins caught in non-BRD pots would have been excluded from pots fitted with 12 x 4.5 cm BRDs (Fig. 2). That no terrapins were caught in BRD-fitted pots despite some being small enough suggests possible avoidance behavior of terrapins to BRDs.

Discussion

The use of BRDs on commercial crab pots placed in subtidal sections of marsh creeks had no influence on crab catch the day after baiting. This result is similar to the only other BRD study in Virginia waters (Rook et al. in press), although for that study the pots were placed in more shallow, intertidal locations. With other BRD studies completed in New Jersey (Wood 1997), Maryland (Roosenburg and Green 2000), Florida (Butler and Heinrich 2007), and Louisiana (Guillory and Prejean 1998), the existing consensus is that crab catch is not dramatically compromised by BRDs.

Beyond the first day after baiting, however, crab catch dropped, demonstrating that crabs enter pots in search of food and are responding to the fresh bait. More importantly, when pots are not freshly baited, crabs do not enter BRD-fitted pots as frequently as non-BRD pots. Irregular tending of pots might happen, for example, when some recreational pots are visited only on weekends; derelict and abandoned pots are not tended at all and are a potential long-term sink for legal size crabs (Havens et al. 2008). Although untended pots may self-bait over time, unbaited pots fitted with BRDs did not attract as many crabs or by-catch in the present study, suggesting that BRDs may reduce incidental capture and mortality of crabs when pots are not tended regularly.

BRDs were highly effective at excluding both turtles and fish as by-catch. For male and female diamondback terrapins in Felgates Creek, the total number caught (N=51) in the ten non-BRD pots represents a potential reduction in population size from 22-41%. Given that pots were sampled only 46 days, the terrapin population in this creek would have experienced significant mortality of adult males and juvenile and young adult females over a single full season of commercial crabbing (8 months). Because the sex ratio of by-caught terrapins was male-biased (2:1), one would anticipate a shift in population demographics, as

has been noted elsewhere (Roosenburg 1997; Dorcas et al. 2007; Grosse et al. 2009). Interestingly, it was found that terrapin and fish by-catch did not vary among bait days, i.e., terrapins and fish entered pots irrespective of whether bait was fresh. On days that bait was fresh, however, the total crab catch was significantly lower in pots containing a terrapin. These results highlight two important concerns: 1) unbaited pots pose an ongoing mortality threat to terrapins and fish and are at least as attractive as freshly baited pots; and 2) the presence of live terrapins in pots reduces crab catch. Both of these concerns are addressed by BRDs that exclude terrapins, thereby reducing turtle mortality and improving overall crab catch.

The general impact of commercial crab pots on terrapin by-catch is fairly well-established (i.e., crab pots also capture turtles), but the relative contribution of different crabbing groups (recreational versus commercial crabbers, e.g.) to terrapin population dynamics is not as clear. It is not known to what extent the current distribution of all diamondback terrapin populations has been influenced by crabbing pressures, nor is much known about population recovery when those crabbing pressures are reduced through use of BRDs. Recent studies by Dorcas et al. (2007) and Grosse et al. (2009) have documented long-term changes in population demographics and short-term decimation of population sizes, respectively, directly related to terrapin mortality in commercial crab pots. The benefits of BRDs should be realized anywhere commercial-type crab pots are set or eventually settle into diamondback terrapin habitat.

Policy Recommendation

As noted above, many states employ some degree of protection for the diamondback terrapin by requiring BRD use under certain circumstances. In light of the bycatch threat to diamondback terrapins, I recommend that the Virginia Marine Resources Commission implement some form of policy change targeted at reducing diamondback terrapin mortality as bycatch in Maryland-style, commercial crab pots. The forms of crabbing considered in my study are commercial and recreational, so they will be considered here. Three important insights from the results presented here can be considered as the basis for a potential policy recommendation. First, BRDs are highly effective at reducing terrapin bycatch. As mentioned above, no terrapin was captured during the course of my study in any pot affixed with BRDs. Second, no statistical difference was found between pots with and without BRDs in terms of the number of crabs captured, so long as fresh bait was present in the pots to attract crabs. Third, pots in which diamondback terrapins were captured caught significantly fewer crabs than those in which no terrapins were captured. Thus, it is to a crabber's benefit to exclude terrapins from his/her pots. As for potential policy recommendations aimed at reducing terrapin mortality as bycatch in Maryland-style crab pots, (assuming the status quo implementing no policy change is unacceptable), three will be considered here, all of which would reduce the number of terrapins captured and killed as bycatch in crab pots.

The first such proposal would be a requirement that BRDs be installed on all crab pots, both commercial and recreational, anywhere they are used. The major benefit of such an approach is its breadth. As BRDs are highly effective at preventing terrapin capture in crab pots, requiring them on all crab pots would virtually eliminate the threat of bycatch to the Virginia terrapin population. Enforcement of this policy would rely upon the threat of a

sufficiently harsh punishment if BRDs are not used, thereby encouraging crabbers to install BRDs rather than take the unnecessary risk of being caught without them. A potential punishment for not installing BRDs could be the loss of one's commercial or recreational fishing license. However this policy is excessive. To require BRDs across all waters crabbed is an unnecessary cost to crabbers, because all areas crabbed are not necessarily terrapin habitat. A majority of crab pots pose little threat to terrapins when placed in sufficiently deep water, and thus the cost of purchasing BRDs for those pots is unnecessary. Thus this policy is cost-prohibitive for crabbers.

A second policy approach would be a requirement that BRDs be installed on all recreational crab pots. Benefits to this approach are numerous, the largest being that nearly all recreational crab pots used are placed in areas of terrapin habitat, and so limiting the threat of bycatch imposed by recreational pots would reduce diamondback mortality due to bycatch in crab pots. However, this policy fails to sufficiently solve the problem of mortality. Recreational crab pots do not constitute as large a threat to diamondback terrapins as commercial pots placed in terrapin habitat both in terms of numbers of pots and the frequency with which they are used, so requiring BRDs only on recreational pots will only partially alleviate the problem. Thus, this policy is insufficient in reducing terrapin mortality due to bycatch in Maryland-style crab pots.

The final policy recommendation would require BRDs on all pots located in all areas of high terrapin density. The policy would be based on the delineation of areas requiring BRD use depending upon the distance the crab pot is placed from shore. In that zone, any crab pot placed in the creek would require BRD installation on all entrance gapes, irrespective of license type (i.e., both commercial and recreational pots would be required to

have BRDs). The major advantage of this proposal is that it is designed with the habitat of terrapins expressly in mind. The diamondback terrapin is found more heavily concentrated in the shallower, narrower reaches of tidal creeks and marshes. BRD requirement is thus limited to areas with high terrapin density. It thereby minimizes the financial burden placed upon crabbers in the purchase of BRDs by requiring them only where they are needed. By requiring BRDs on all pots placed in terrapin habitat, this policy would have a near universal impact on reducing terrapin bycatch. In addition, just like the first policy, enforcement would be based upon the threat of a sufficiently harsh punishment such that violation of law is made too costly for crabbers to risk non-compliance.

Of the three policies presented above, the policy requiring BRDs on crab pots depending upon creek width and irrespective of license type is the most practical, efficient, and effective means of limiting diamondback terrapin mortality in Maryland-style crab pots. Because pots that are placed or are transported to tidal marsh creeks and other shallow sub-tidal areas (e.g., seagrass beds) may be owned by recreational crabbers, commercial hard-shell crabbers, or peeler crabbers, regulations should not necessarily target a specific crabbing group. New Jersey requires that both commercial and recreational pots within 150 feet (45.7 meters) of the shoreline be fitted with BRDs (Roosenburg 2004). Based on these metrics, maps of critical habitat areas where BRDs are required could be posted, for example, on a relevant agency website. Unfortunately, the current distribution and sizes of terrapin populations relative to potential habitat is an unknown and probably complex mosaic owing to slow, long-term recovery from species decimation occurring a century ago (Schaffer et al. 2008), more recent threats to successful nesting and juvenile survivorship (Burger 1977;

Feinberg and Burke 2003), and periodic pulses of adult mortality, primarily from drowning in commercial crab pots (Seigel and Gibbons 1995). \

To provide a simple estimate of the potential impact imposed by a New Jersey-style regulation on the commercial crabbing industry, a GIS map of Queen's Creek in the York River Estuary was made. The percentage area covered by a potential regulatory distance from shore of 150 feet (45.7 meters) was estimated. If a New Jersey-style regulation was implemented, then pots in 46% of the entire commercially-exploited area of the creek would be required to have BRDs installed.

The potential benefits of reducing terrapin and fish by-catch and reducing the capture of crabs in infrequently checked pots make a compelling case for enacting legislation to require BRDs on crab pots in terrapin habitat. I recommend that a terrapin policy delineated by creek width be adopted by the Virginia Marine Resources Commission. I am hopeful this policy will be adopted and implemented as soon as possible, before our state's diamondback terrapin is further reduced unnecessarily.

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Table 1 Summary catch data for crab pots fitted with BRDs (10 pots) and those without BRDs (10 pots), splitting catch from first day after baiting (*N*=70 pot days) versus catch from all other days (*N*=380 pot days)

	First Day After Baiting		All Other Bait Days		Totals
Catch	BRD	Non-BRD	BRD	Non-BRD	
Total Crabs	200	233	419	782	1634
Legal Size Crabs	83	100	172	324	679
Males	189	210	396	720	1515
Females	11	23	23	62	119
Terrapins	0	9	0	42	51
Fish	1	0	4	39	44

Figure Legends

Fig. 1 Total crab and legal size crab catch (average + SE) as a function of days since pot baiting during 2009 field season in Felgates Creek, VA. Catch is separated between non-BRD and BRD pots

Fig. 2 Plot of shell width and shell depth for male and female terrapins caught in non-BRD pots. No terrapins were captured in BRD-fitted pots. Dimensions of BRDs used are also plotted to show BRD zone, outside of which any terrapins captured in a non-BRD pot would have been excluded based on size

Fig. 3 Aerial image of Queen's Creek overlaid with GIS mapping software. Green buffer at creek bank corresponds to 150 foot shore zone in which pots would require BRDs

Fig. 4 Aerial image of Queen's Creek showing portion of creek in which commercial crabbing takes place, colored red

Fig. 1 Morris

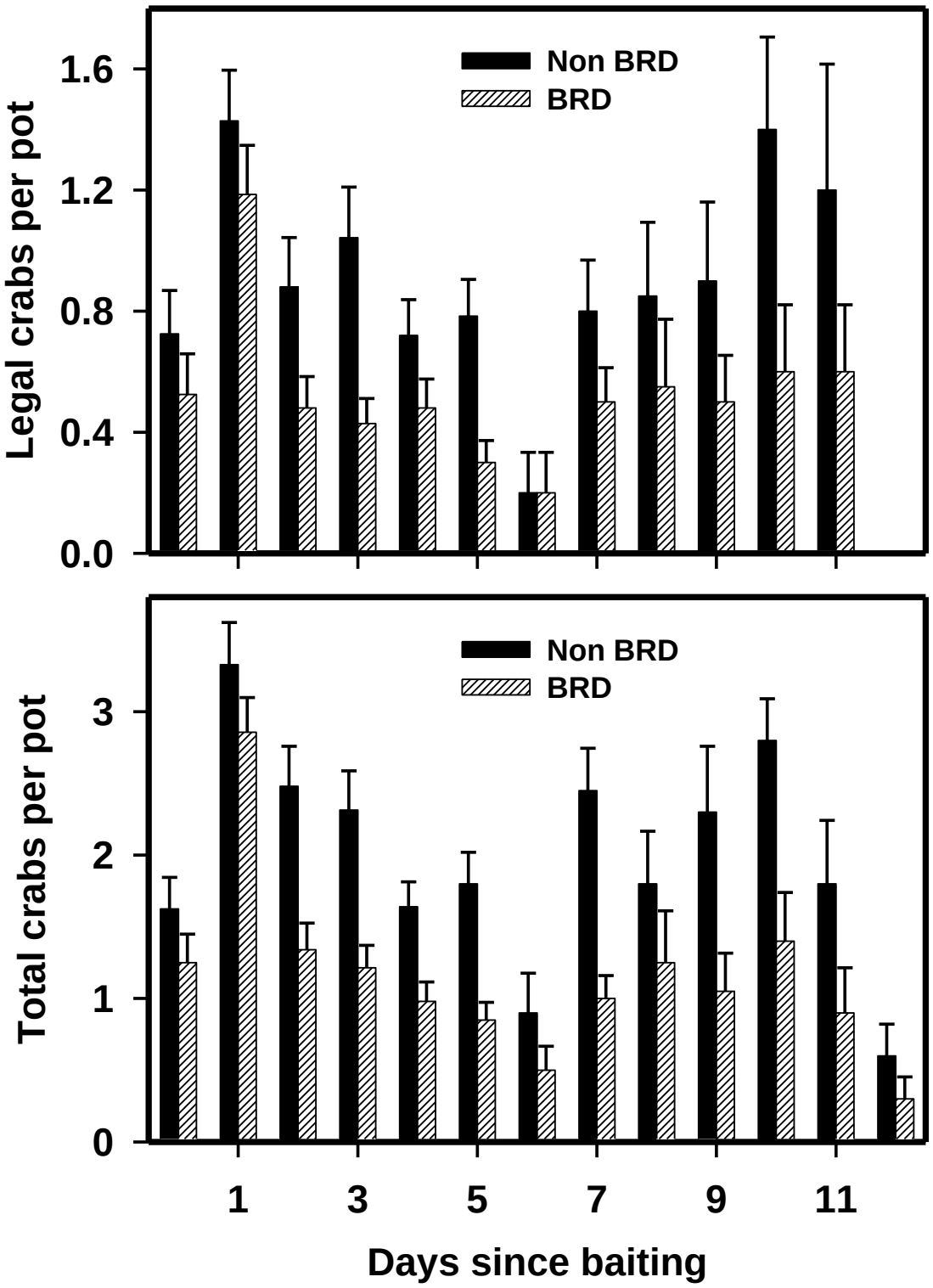

Non BRD
BRD
Legal crabs per pot
1.6
1.2
0.8
0.4
0.0
Non BRD
BRD
Total crabs per pot
3
2
1
0
1
3
5
7
9
11
Days since baiting

Fig. 2 Morris

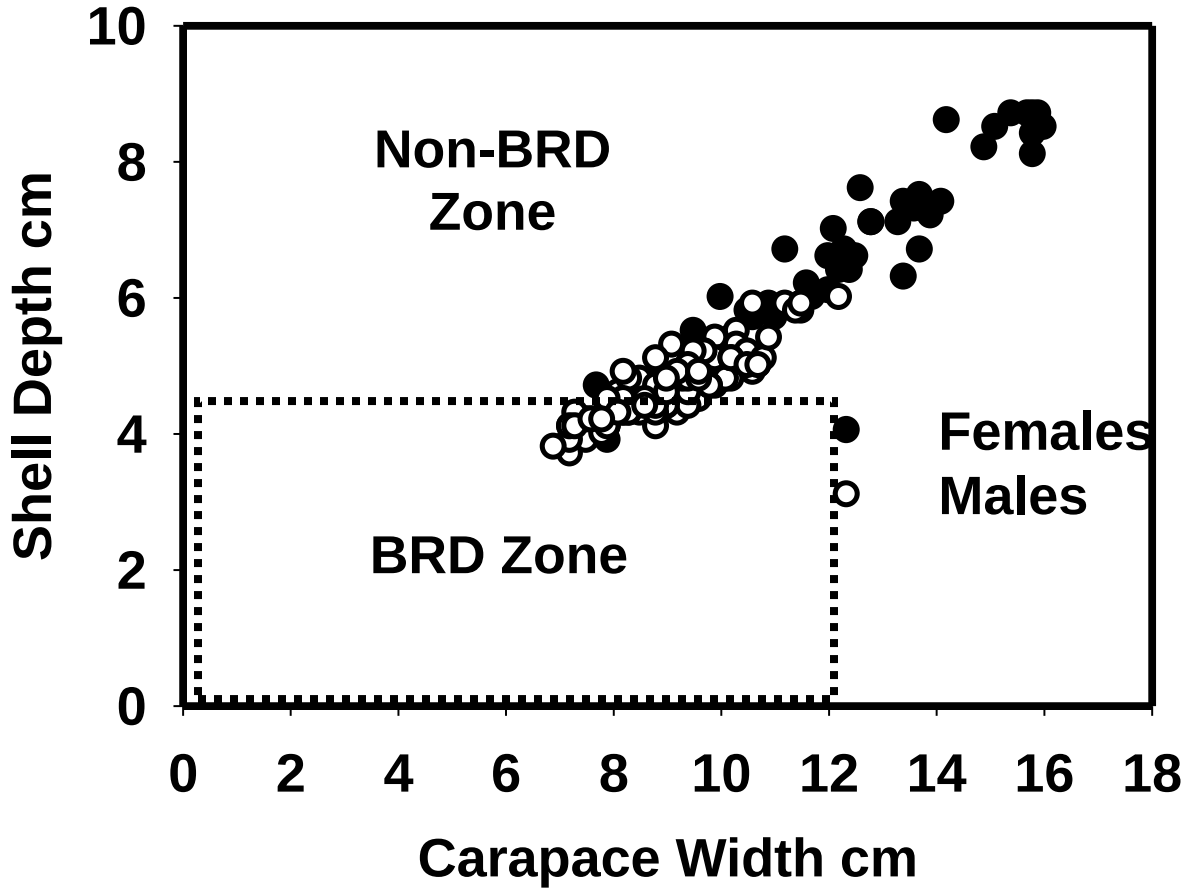

Shell Depth cm
Carapace Width cm
Non-BRD Zone
BRD Zone
Females
Males
0
2
4
6
8
10
12
14
16
18

Fig. 3 Morris

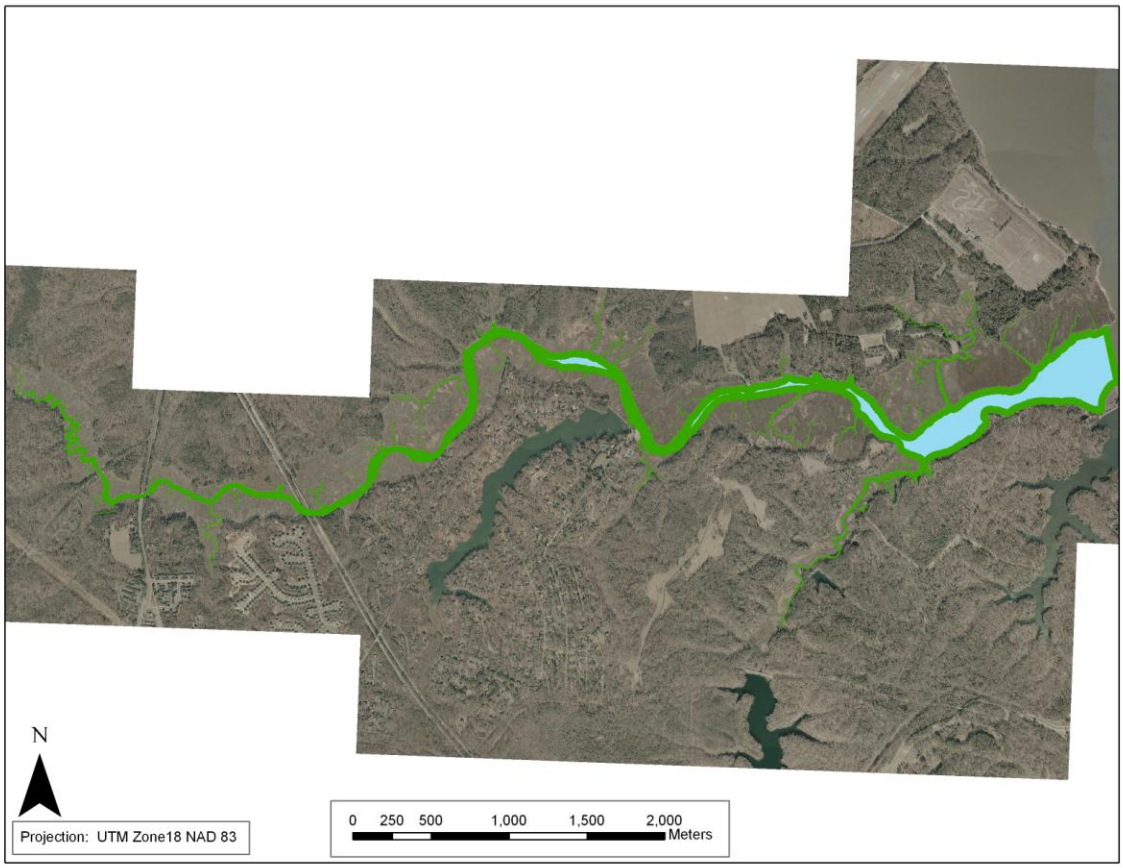
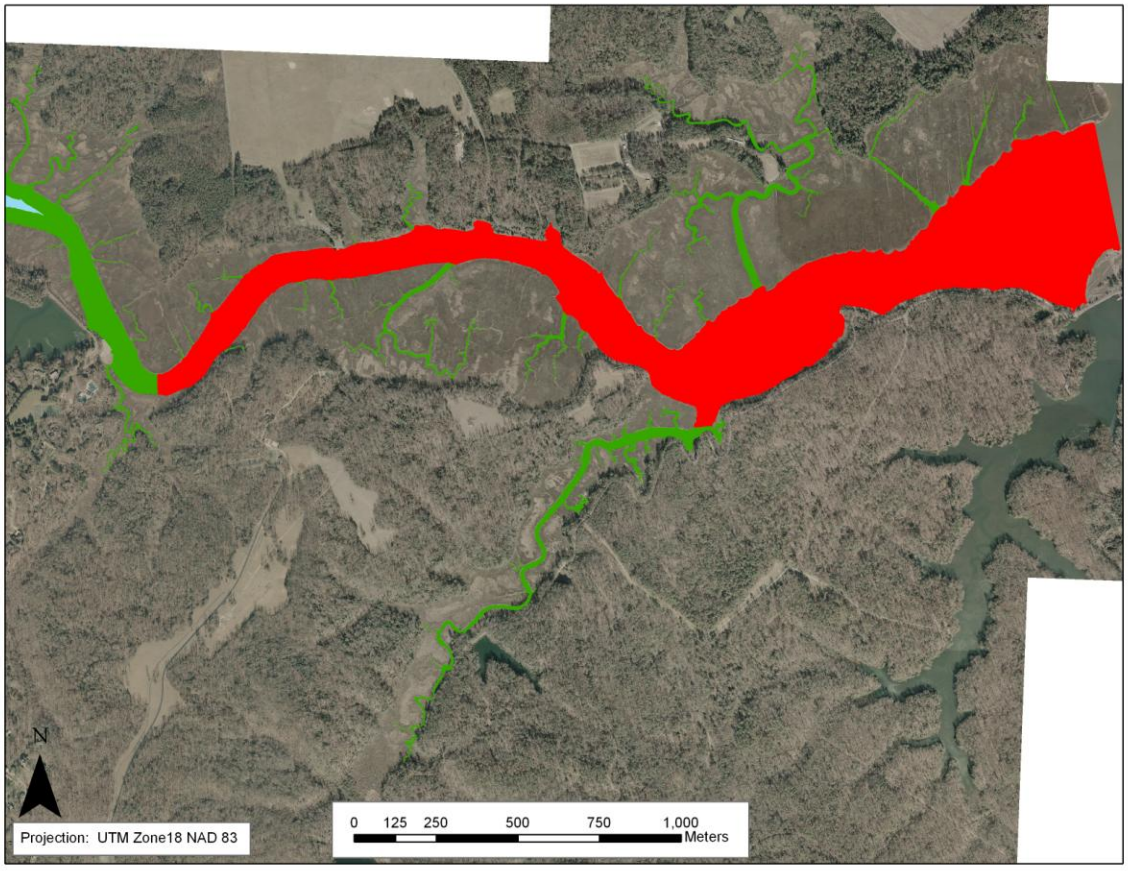

N
Projection: UTM Zone18 NAD 83
0 250 500 1,000 1,500 2,000
Meters

Fig. 4 Morris



Appendix 1: Crab Catch Data

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
155	**0**	**1**	**1**	**1**	**0**	**1**	**0**	**0**	**0**
155	0	1	0	0	0	0	0	0	0
155	0	2	1	1	1	1	0	0	0
155	0	2	0	0	0	0	0	0	0
155	0	3	1	0	0	0	0	0	0
155	0	3	0	0	0	0	0	0	0
155	0	4	1	0	0	0	0	0	0
155	0	4	0	0	0	0	0	0	0
155	0	5	0	0	0	0	0	0	0
155	0	5	1	0	0	0	0	0	0
155	0	6	1	0	0	0	0	0	0
155	0	6	0	0	0	0	0	0	0
155	0	7	0	0	0	0	0	0	0
155	0	7	1	0	0	0	0	0	0
155	0	8	0	0	0	0	0	0	0
155	0	8	1	0	0	0	0	0	0
155	0	9	0	4	3	3	1	0	0
155	0	9	1	1	0	1	0	0	0
155	0	10	0	1	0	1	0	0	0
155	0	10	1	1	1	1	0	0	0
157	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
157	0	1	0	2	1	2	0	0	0
157	0	2	1	1	1	1	0	0	0
157	0	2	0	1	0	1	0	0	0
157	0	3	1	1	0	1	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
157	0	3	0	3	1	3	0	1	0
157	0	4	1	2	1	2	0	0	0
157	0	4	0	2	1	2	0	0	1
157	0	5	0	1	0	1	0	0	0
157	0	5	1	0	0	0	0	0	0
157	0	6	1	0	0	0	0	0	0
157	0	6	0	4	1	4	0	0	0
157	0	7	0	1	1	1	0	2	0
157	0	7	1	1	0	1	0	0	0
157	0	8	0	0	0	0	0	0	0
157	0	8	1	1	0	1	0	0	0
157	0	9	0	2	0	2	0	0	1
157	0	9	1	2	2	2	0	0	0
157	0	10	0	1	0	1	0	0	0
157	0	10	1	4	4	4	0	0	0
159	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
159	0	1	0	0	0	0	0	0	0
159	0	2	1	0	0	0	0	0	0
159	0	2	0	3	1	3	0	0	0
159	0	3	1	1	0	1	0	0	0
159	0	3	0	2	0	2	0	0	0
159	0	4	1	1	0	1	0	0	0
159	0	4	0	2	1	1	1	0	0
159	0	5	0	1	1	1	0	2	1
159	0	5	1	1	0	1	0	0	0
159	0	6	1	0	0	0	0	0	0
159	0	6	0	4	0	4	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
159	0	7	0	2	0	2	0	0	0
159	0	7	1	1	1	1	0	0	0
159	0	8	0	4	3	1	0	1	0
159	0	8	1	0	0	0	0	0	0
159	0	9	0	2	2	2	0	0	0
159	0	9	1	1	1	1	0	0	0
159	0	10	0	1	1	1	0	0	0
159	0	10	1	1	0	1	0	0	0
160	**0**	**1**	**1**	**3**	**2**	**3**	**0**	**0**	**0**
160	0	1	0	4	3	4	0	0	0
160	0	2	1	2	1	2	0	0	0
160	0	2	0	1	1	1	0	0	0
160	0	3	1	3	1	3	0	0	0
160	0	3	0	3	1	3	0	0	0
160	0	4	1	3	2	3	0	0	0
160	0	4	0	2	2	2	0	0	0
160	0	5	0	1	0	1	0	0	0
160	0	5	1	3	0	3	0	0	0
160	0	6	1	2	0	2	0	0	0
160	0	6	0	4	2	4	0	0	0
160	0	7	0	0	0	0	0	0	0
160	0	7	1	4	1	4	0	0	0
160	0	8	0	2	1	2	0	0	0
160	0	8	1	1	1	1	0	0	0
160	0	9	0	3	1	3	0	1	0
160	0	9	1	3	0	3	0	0	0
160	0	10	0	2	1	2	0	2	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
160	0	10	1	4	1	4	0	0	0
161	**1**	**1**	**1**	**4**	**4**	**4**	**0**	**0**	**0**
161	1	1	0	3	1	3	0	0	0
161	1	2	1	1	0	1	0	0	0
161	1	2	0	4	2	4	0	0	0
161	1	3	1	5	3	5	0	0	0
161	1	3	0	3	2	3	0	0	0
161	1	4	1	6	2	5	1	0	0
161	1	4	0	2	1	2	0	0	0
161	1	5	0	4	3	4	0	0	0
161	1	5	1	0	0	0	0	0	0
161	1	6	1	1	0	1	0	0	0
161	1	6	0	3	1	2	1	1	0
161	1	7	0	3	2	3	0	0	0
161	1	7	1	2	0	2	0	0	0
161	1	8	0	4	1	3	1	0	0
161	1	8	1	1	0	1	0	0	0
161	1	9	0	0	0	0	0	2	0
161	1	9	1	4	1	4	0	0	0
161	1	10	0	1	0	1	0	0	0
161	1	10	1	2	1	2	0	0	0
162	**2**	**1**	**1**	**2**	**0**	**2**	**0**	**0**	**0**
162	2	1	0	1	0	1	0	0	0
162	2	2	1	0	0	0	0	0	0
162	2	2	0	4	2	4	0	0	0
162	2	3	1	1	0	1	0	0	0
162	2	3	0	4	2	4	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
162	2	4	1	1	1	1	0	0	0
162	2	4	0	1	0	1	0	0	0
162	2	5	0	0	0	0	0	2	0
162	2	5	1	1	0	1	0	0	0
162	2	6	1	1	0	0	1	0	0
162	2	6	0	1	0	1	0	0	0
162	2	7	0	0	0	0	0	0	0
162	2	7	1	4	1	4	0	0	0
162	2	8	0	2	0	2	0	0	0
162	2	8	1	1	0	1	0	0	0
162	2	9	0	2	0	2	0	0	0
162	2	9	1	1	0	1	0	0	0
162	2	10	0	1	0	1	0	0	0
162	2	10	1	2	0	2	0	0	0
164	**3**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
164	3	1	0	2	2	2	0	0	0
164	3	2	1	1	1	1	0	0	0
164	3	2	0	6	2	2	0	0	0
164	3	3	1	1	0	0	0	0	0
164	3	3	0	2	1	1	0	0	0
164	3	4	1	2	0	0	0	0	0
164	3	4	0	1	1	1	0	0	0
164	3	5	0	0	0	0	0	2	1
164	3	5	1	0	0	0	0	0	0
164	3	6	1	0	0	0	0	0	0
164	3	6	0	2	2	2	0	0	0
164	3	7	0	0	0	0	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
164	3	7	1	0	0	0	0	0	0
164	3	8	0	0	0	0	0	0	0
164	3	8	1	0	0	0	0	0	0
164	3	9	0	0	0	0	0	0	0
164	3	9	1	0	0	0	0	0	0
164	3	10	0	0	0	0	0	0	0
164	3	10	1	0	0	0	0	0	0
166	**1**	**1**	**1**	**4**	**1**	**3**	**1**	**0**	**0**
166	1	1	0	2	0	2	0	0	0
166	1	2	1	0	0	0	0	0	0
166	1	2	0	6	4	6	0	0	0
166	1	3	1	4	1	4	0	0	0
166	1	3	0	4	2	3	1	0	0
166	1	4	1	8	4	8	0	0	0
166	1	4	0	2	2	2	0	1	1
166	1	5	0	2	2	2	0	0	0
166	1	5	1	2	0	2	0	0	0
166	1	6	1	2	0	2	0	0	0
166	1	6	0	6	1	5	1	0	0
166	1	7	0	2	1	2	0	0	0
166	1	7	1	6	3	6	0	0	0
166	1	8	0	5	3	4	1	0	0
166	1	8	1	2	1	1	1	0	0
166	1	9	0	2	1	2	0	0	0
166	1	9	1	3	2	3	0	0	0
166	1	10	0	2	0	1	0	0	0
166	1	10	1	4	1	4	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
167	**2**	**1**	**1**	**2**	**2**	**2**	**0**	**0**	**0**
167	2	1	0	2	1	2	0	0	0
167	2	2	1	0	0	0	0	0	0
167	2	2	0	4	2	4	0	0	0
167	2	3	1	2	1	2	0	0	0
167	2	3	0	4	3	4	0	0	0
167	2	4	1	0	0	0	0	0	0
167	2	4	0	1	0	1	0	0	0
167	2	5	0	0	0	0	0	0	0
167	2	5	1	1	0	1	0	0	0
167	2	6	1	0	0	0	0	0	0
167	2	6	0	0	0	0	0	0	0
167	2	7	0	6	1	5	1	0	0
167	2	7	1	3	1	3	0	0	0
167	2	8	0	4	1	4	0	1	0
167	2	8	1	3	1	3	0	0	0
167	2	9	0	0	0	0	0	0	0
167	2	9	1	1	1	1	0	0	0
167	2	10	0	2	1	2	0	0	0
167	2	10	1	1	0	1	0	0	0
168	**3**	**1**	**1**	**5**	**2**	**5**	**0**	**0**	**0**
168	3	1	0	3	2	3	0	0	0
168	3	2	1	1	0	1	0	0	0
168	3	2	0	5	3	5	0	0	0
168	3	3	1	1	0	1	0	0	0
168	3	3	0	1	0	1	0	0	0
168	3	4	1	2	0	2	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
168	3	4	0	4	1	4	0	0	0
168	3	5	0	0	0	0	0	0	0
168	3	5	1	1	0	1	0	0	0
168	3	6	1	2	1	2	0	0	0
168	3	6	0	1	0	1	0	0	0
168	3	7	0	1	0	1	0	0	0
168	3	7	1	4	2	4	0	0	0
168	3	8	0	0	0	0	0	0	0
168	3	8	1	1	0	1	0	0	0
168	3	9	0	2	0	1	1	0	0
168	3	9	1	4	2	4	0	0	0
168	3	10	0	2	1	2	0	0	0
168	3	10	1	4	3	4	0	0	0
169	**4**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
169	4	1	0	2	1	2	0	0	0
169	4	2	1	0	0	0	0	0	0
169	4	2	0	2	1	2	0	0	0
169	4	3	1	1	1	1	0	0	0
169	4	3	0	1	0	1	0	0	0
169	4	4	1	0	0	0	0	0	0
169	4	4	0	1	1	1	0	0	0
169	4	5	0	0	0	0	0	0	0
169	4	5	1	2	0	1	1	0	0
169	4	6	1	1	1	1	0	0	0
169	4	6	0	1	0	1	0	0	0
169	4	7	0	3	2	3	0	0	0
169	4	7	1	0	0	0	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
169	4	8	0	0	0	0	0	0	0
169	4	8	1	0	0	0	0	0	0
169	4	9	0	1	0	1	0	0	0
169	4	9	1	1	0	1	0	0	0
169	4	10	0	0	0	0	0	0	0
169	4	10	1	2	1	1	1	0	0
170	**5**	**1**	**1**	**2**	**2**	**2**	**0**	**0**	**0**
170	5	1	0	2	2	2	0	1	0
170	5	2	1	0	0	0	0	0	0
170	5	2	0	1	0	1	0	0	0
170	5	3	1	1	0	1	0	0	0
170	5	3	0	1	1	1	0	0	0
170	5	4	1	2	2	2	0	0	0
170	5	4	0	0	0	0	0	0	0
170	5	5	0	0	0	0	0	0	0
170	5	5	1	0	0	0	0	0	0
170	5	6	1	0	0	0	0	0	0
170	5	6	0	2	0	2	0	0	0
170	5	7	0	1	0	1	0	0	0
170	5	7	1	0	0	0	0	0	0
170	5	8	0	4	3	4	0	0	0
170	5	8	1	1	0	1	0	0	0
170	5	9	0	2	2	2	0	0	0
170	5	9	1	1	0	1	0	0	0
170	5	10	0	4	0	3	1	0	0
170	5	10	1	5	0	5	0	0	0
171	**1**	**1**	**1**	**1**	**0**	**1**	**0**	**0**	**0**

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
171	1	1	0	3	1	2	1	0	0
171	1	2	1	2	2	2	0	0	0
171	1	2	0	7	1	7	0	0	0
171	1	3	1	4	0	3	1	0	0
171	1	3	0	5	4	4	1	0	0
171	1	4	1	4	0	4	0	0	0
171	1	4	0	3	2	3	0	0	0
171	1	5	0	0	0	0	0	0	0
171	1	5	1	1	0	1	0	0	0
171	1	6	1	3	0	3	0	0	0
171	1	6	0	0	0	0	0	1	0
171	1	7	0	3	1	3	0	0	0
171	1	7	1	0	0	0	0	0	0
171	1	8	0	1	1	1	0	0	0
171	1	8	1	3	0	3	0	0	0
171	1	9	0	4	0	3	1	0	0
171	1	9	1	4	2	4	0	0	0
171	1	10	0	1	0	1	0	0	0
171	1	10	1	5	2	5	0	0	0
173	**3**	**1**	**1**	**4**	**1**	**2**	**2**	**0**	**0**
173	3	1	0	1	0	1	0	1	0
173	3	2	1	0	0	0	0	0	0
173	3	2	0	9	6	8	1	0	0
173	3	3	1	2	0	2	0	0	0
173	3	3	0	1	0	1	0	0	0
173	3	4	1	1	0	1	0	0	0
173	3	4	0	2	1	2	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
173	3	5	0	0	0	0	0	0	0
173	3	5	1	1	0	1	0	0	0
173	3	6	1	1	1	1	0	0	0
173	3	6	0	2	0	2	0	0	0
173	3	7	0	0	0	0	0	0	0
173	3	7	1	1	0	1	0	0	0
173	3	8	0	1	0	1	0	0	0
173	3	8	1	2	1	2	0	0	0
173	3	9	0	7	4	7	0	0	0
173	3	9	1	1	1	1	0	0	0
173	3	10	0	3	1	2	1	0	0
173	3	10	1	1	0	1	0	0	0
174	**4**	**1**	**1**	**2**	**1**	**2**	**0**	**0**	**0**
174	4	1	0	0	0	0	0	0	0
174	4	2	1	1	1	1	0	0	0
174	4	2	0	3	3	3	0	0	0
174	4	3	1	3	0	3	0	0	0
174	4	3	0	3	1	3	0	1	0
174	4	4	1	1	0	1	0	0	0
174	4	4	0	1	0	0	1	0	0
174	4	5	0	1	0	1	0	0	0
174	4	5	1	0	0	0	0	0	0
174	4	6	1	1	1	1	0	0	0
174	4	6	0	0	0	0	0	0	0
174	4	7	0	0	0	0	0	0	0
174	4	7	1	0	0	0	0	0	0
174	4	8	0	0	0	0	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
174	4	8	1	3	2	2	1	0	0
174	4	9	0	2	2	2	0	0	0
174	4	9	1	1	1	1	0	0	0
174	4	10	0	2	0	1	1	0	0
174	4	10	1	1	0	1	0	0	0
175	**5**	**1**	**1**	**2**	**0**	**2**	**0**	**0**	**0**
175	5	1	0	0	0	0	0	0	0
175	5	2	1	0	0	0	0	0	0
175	5	2	0	3	2	3	0	0	0
175	5	3	1	1	0	1	0	0	0
175	5	3	0	0	0	0	0	0	0
175	5	4	1	1	1	1	0	0	0
175	5	4	0	0	0	0	0	0	0
175	5	5	0	3	2	3	0	1	0
175	5	5	1	0	0	0	0	0	0
175	5	6	1	2	1	2	0	0	0
175	5	6	0	0	0	0	0	0	0
175	5	7	0	1	0	1	0	0	0
175	5	7	1	0	0	0	0	0	0
175	5	8	0	1	0	1	0	0	0
175	5	8	1	2	0	2	0	0	0
175	5	9	0	2	1	2	0	0	0
175	5	9	1	0	0	0	0	0	0
175	5	10	0	2	2	2	0	0	0
175	5	10	1	0	0	0	0	0	0
176	**1**	**1**	**1**	**3**	**0**	**3**	**0**	**0**	**0**
176	1	1	0	1	0	1	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
176	1	2	1	2	0	2	0	0	0
176	1	2	0	4	1	4	0	0	0
176	1	3	1	1	0	1	0	0	0
176	1	3	0	0	0	0	0	0	0
176	1	4	1	2	2	2	0	0	0
176	1	4	0	2	0	1	1	0	0
176	1	5	0	0	0	0	0	0	0
176	1	5	1	2	0	2	0	0	0
176	1	6	1	1	0	1	0	0	0
176	1	6	0	1	0	1	0	0	0
176	1	7	0	0	0	0	0	0	0
176	1	7	1	3	1	2	1	0	0
176	1	8	0	4	0	4	0	0	0
176	1	8	1	1	1	1	0	0	0
176	1	9	0	3	0	3	0	0	0
176	1	9	1	3	2	2	1	0	0
176	1	10	0	3	2	3	0	1	0
176	1	10	1	0	0	0	0	0	0
178	**3**	**1**	**1**	**1**	**1**	**1**	**0**	**0**	**0**
178	3	1	0	2	1	1	1	0	0
178	3	2	1	0	0	0	0	0	0
178	3	2	0	1	1	1	0	0	0
178	3	3	1	1	0	1	0	0	0
178	3	3	0	3	1	3	0	0	0
178	3	4	1	2	1	2	0	0	0
178	3	4	0	3	2	3	0	0	0
178	3	5	0	0	0	0	0	2	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
178	3	5	1	0	0	0	0	0	0
178	3	6	1	2	1	2	0	0	0
178	3	6	0	5	4	4	1	0	0
178	3	7	0	0	0	0	0	0	0
178	3	7	1	1	0	1	0	0	0
178	3	8	0	1	0	1	0	0	0
178	3	8	1	2	0	2	0	0	0
178	3	9	0	3	2	3	0	1	0
178	3	9	1	1	0	1	0	0	0
178	3	10	0	4	2	1	3	1	0
178	3	10	1	1	1	1	0	0	0
180	**5**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
180	5	1	0	2	2	2	0	0	0
180	5	2	1	0	0	0	0	0	0
180	5	2	0	2	1	2	0	0	0
180	5	3	1	0	0	0	0	0	0
180	5	3	0	1	0	1	0	0	0
180	5	4	1	2	0	2	0	0	0
180	5	4	0	1	0	1	0	0	0
180	5	5	0	1	0	1	0	0	0
180	5	5	1	0	0	0	0	0	0
180	5	6	1	0	0	0	0	0	0
180	5	6	0	3	0	2	1	0	0
180	5	7	0	0	0	0	0	0	0
180	5	7	1	1	0	0	1	0	0
180	5	8	0	2	2	2	0	0	0
180	5	8	1	1	0	1	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
180	5	9	0	3	2	3	0	0	0
180	5	9	1	0	0	0	0	0	0
180	5	10	0	1	1	1	0	0	0
180	5	10	1	1	1	1	0	0	0
181	**6**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
181	6	1	0	1	0	1	0	0	0
181	6	2	1	1	0	1	0	0	0
181	6	2	0	0	0	0	0	0	0
181	6	3	1	1	1	1	0	0	0
181	6	3	0	1	0	1	0	0	0
181	6	4	1	1	0	1	0	0	0
181	6	4	0	0	0	0	0	0	0
181	6	5	0	1	0	1	0	0	0
181	6	5	1	0	0	0	0	0	0
181	6	6	1	0	0	0	0	0	0
181	6	6	0	1	0	1	0	0	0
181	6	7	0	1	1	1	0	0	0
181	6	7	1	1	1	1	0	0	0
181	6	8	0	0	0	0	0	0	1
181	6	8	1	1	0	1	0	0	0
181	6	9	0	3	1	3	0	0	0
181	6	9	1	0	0	0	0	0	0
181	6	10	0	1	0	1	0	0	0
181	6	10	1	0	0	0	0	0	0
182	**7**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
182	7	1	0	0	0	0	0	0	0
182	7	2	1	0	0	0	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
182	7	2	0	3	3	2	1	0	0
182	7	3	1	0	0	0	0	0	0
182	7	3	0	2	0	1	1	0	0
182	7	4	1	0	0	0	0	0	0
182	7	4	0	1	1	1	0	0	0
182	7	5	0	0	0	0	0	0	1
182	7	5	1	0	0	0	0	0	0
182	7	6	1	0	0	0	0	0	0
182	7	6	0	2	1	2	0	0	0
182	7	7	0	0	0	0	0	0	0
182	7	7	1	0	0	0	0	0	0
182	7	8	1	1	0	1	0	0	0
182	7	8	0	0	0	0	0	0	0
182	7	9	0	1	1	1	0	0	0
182	7	9	1	0	0	0	0	0	0
182	7	10	0	1	0	1	0	0	0
182	7	10	1	1	1	1	0	0	0
183	**8**	**1**	**1**	**1**	**0**	**1**	**0**	**0**	**0**
183	8	1	0	0	0	0	0	0	0
183	8	2	1	0	0	0	0	0	0
183	8	2	0	5	3	4	1	0	0
183	8	3	0	2	0	2	0	0	0
183	8	3	1	0	0	0	0	0	0
183	8	4	1	0	0	0	0	0	0
183	8	4	0	1	1	1	0	1	0
183	8	5	0	0	0	0	0	0	1
183	8	5	1	0	0	0	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
183	8	6	1	1	0	0	1	0	0
183	8	6	0	0	0	0	0	0	0
183	8	7	0	0	0	0	0	0	0
183	8	7	1	0	0	0	0	0	0
183	8	8	0	0	0	0	0	0	0
183	8	8	1	1	1	1	0	0	0
183	8	9	0	3	1	3	0	0	0
183	8	9	1	0	0	0	0	0	0
183	8	10	0	1	0	1	0	0	0
183	8	10	1	0	0	0	0	0	0
184	**9**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
184	9	1	0	3	2	3	0	0	1
184	9	2	1	0	0	0	0	0	0
184	9	2	0	1	0	1	0	0	0
184	9	3	1	0	0	0	0	0	0
184	9	3	0	2	0	2	0	0	0
184	9	4	1	2	0	2	0	0	0
184	9	4	0	0	0	0	0	0	0
184	9	5	0	0	0	0	0	0	0
184	9	5	1	1	1	0	1	0	0
184	9	6	1	1	1	1	0	0	0
184	9	6	0	0	0	0	0	0	0
184	9	7	0	1	0	1	0	0	0
184	9	7	1	0	0	0	0	0	0
184	9	8	0	1	0	1	0	0	0
184	9	8	1	1	0	1	0	0	0
184	9	9	0	2	0	2	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
184	9	9	1	0	0	0	0	0	0
184	9	10	0	0	0	0	0	0	0
184	9	10	1	0	0	0	0	0	0
187	**12**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
187	12	1	0	1	0	1	0	0	0
187	12	2	1	1	0	1	0	0	0
187	12	2	0	1	0	1	0	0	0
187	12	3	1	0	0	0	0	0	0
187	12	3	0	0	0	0	0	0	0
187	12	4	1	1	0	1	0	0	0
187	12	4	0	0	0	0	0	0	0
187	12	5	0	0	0	0	0	0	0
187	12	5	1	0	0	0	0	0	0
187	12	6	1	0	0	0	0	0	0
187	12	6	0	0	0	0	0	0	0
187	12	7	0	1	0	1	0	0	0
187	12	7	1	0	0	0	0	0	0
187	12	8	0	2	0	2	0	0	0
187	12	8	1	0	0	0	0	0	0
187	12	9	0	1	0	1	0	0	0
187	12	9	1	1	0	1	0	0	0
187	12	10	0	0	0	0	0	0	0
187	12	10	1	0	0	0	0	0	0
188	**1**	**1**	**1**	**6**	**3**	**6**	**0**	**0**	**0**
188	1	1	0	4	3	4	0	0	0
188	1	2	1	2	2	2	0	0	0
188	1	2	0	6	3	6	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
188	1	3	1	0	0	0	0	0	0
188	1	3	0	1	1	1	0	0	0
188	1	4	1	1	0	1	0	0	0
188	1	4	0	3	1	2	1	0	0
188	1	5	0	1	0	1	0	2	0
188	1	5	1	1	1	1	0	0	0
188	1	6	1	2	2	2	0	0	0
188	1	6	0	2	0	2	0	0	0
188	1	7	0	7	2	7	0	0	0
188	1	7	1	3	2	3	0	0	0
188	1	8	0	2	1	1	1	0	0
188	1	8	1	1	1	1	0	0	0
188	1	9	0	6	4	5	1	0	0
188	1	9	1	2	2	1	1	0	0
188	1	10	0	10	4	10	0	0	0
188	1	10	1	2	0	2	0	0	0
189	**2**	**1**	**1**	**1**	**0**	**0**	**1**	**0**	**0**
189	2	1	0	4	3	3	1	0	0
189	2	2	1	1	0	1	0	0	0
189	2	2	0	3	1	3	0	0	0
189	2	3	1	0	0	0	0	0	0
189	2	3	0	1	0	1	0	0	0
189	2	4	1	3	1	2	1	0	0
189	2	4	0	0	0	0	0	0	0
189	2	5	0	1	1	1	0	0	0
189	2	5	1	0	0	0	0	0	0
189	2	6	1	1	0	1	0	0	1

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
189	2	6	0	3	0	3	0	0	1
189	2	7	0	3	0	2	1	0	0
189	2	7	1	0	0	0	0	0	0
189	2	8	0	0	0	0	0	1	0
189	2	8	1	0	0	0	0	0	0
189	2	9	0	3	2	3	0	1	0
189	2	9	1	1	1	1	0	0	0
189	2	10	0	7	3	7	0	0	0
189	2	10	1	0	0	0	0	0	0
190	**3**	**1**	**1**	**1**	**0**	**1**	**0**	**0**	**0**
190	3	1	0	2	0	1	1	0	0
190	3	2	1	0	0	0	0	0	0
190	3	2	0	2	0	2	0	0	0
190	3	3	1	0	0	0	0	0	0
190	3	3	0	0	0	0	0	0	1
190	3	4	1	1	0	1	0	0	0
190	3	4	0	1	1	1	0	0	0
190	3	5	0	0	0	0	0	0	0
190	3	5	1	0	0	0	0	0	0
190	3	6	1	0	0	0	0	0	0
190	3	6	0	5	4	5	0	0	1
190	3	7	0	1	1	1	0	0	0
190	3	7	1	3	0	3	0	0	0
190	3	8	0	0	0	0	0	0	0
190	3	8	1	0	0	0	0	0	0
190	3	9	0	4	0	4	0	0	0
190	3	9	1	1	0	1	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
190	3	10	0	9	4	9	0	0	0
190	3	10	1	0	0	0	0	0	0
191	**4**	**1**	**1**	**1**	**1**	**1**	**0**	**0**	**0**
191	4	1	0	3	1	2	1	0	0
191	4	2	1	0	0	0	0	0	0
191	4	2	0	2	1	2	0	0	0
191	4	3	1	1	0	1	0	0	0
191	4	3	0	1	1	1	0	0	0
191	4	4	1	1	0	1	0	0	0
191	4	4	0	1	0	1	0	0	0
191	4	5	0	0	0	0	0	1	0
191	4	5	1	0	0	0	0	0	0
191	4	6	1	1	1	1	0	0	0
191	4	6	0	4	1	4	0	0	0
191	4	7	0	2	0	2	0	0	0
191	4	7	1	1	0	1	0	0	0
191	4	8	0	0	0	0	0	0	0
191	4	8	1	1	1	1	0	0	0
191	4	9	0	4	1	3	1	0	0
191	4	9	1	0	0	0	0	0	0
191	4	10	0	2	1	1	1	0	0
191	4	10	1	1	0	1	0	0	0
192	**5**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
192	5	1	0	3	1	3	0	0	0
192	5	2	1	0	0	0	0	0	0
192	5	2	0	0	0	0	0	0	0
192	5	3	1	0	0	0	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
192	5	3	0	3	2	2	1	0	0
192	5	4	1	2	1	2	0	0	0
192	5	4	0	0	0	0	0	0	0
192	5	5	0	2	1	2	0	1	1
192	5	5	1	0	0	0	0	0	0
192	5	6	1	0	0	0	0	0	0
192	5	6	0	0	0	0	0	0	0
192	5	7	0	3	1	3	0	0	1
192	5	7	1	1	0	1	0	0	0
192	5	8	0	0	0	0	0	0	0
192	5	8	1	1	0	1	0	0	0
192	5	9	0	2	1	2	0	0	0
192	5	9	1	1	0	1	0	0	0
192	5	10	0	2	0	2	0	0	0
192	5	10	1	1	0	1	0	0	0
194	**7**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
194	7	1	0	2	0	1	1	0	0
194	7	2	1	0	0	0	0	0	0
194	7	2	0	4	1	4	0	0	0
194	7	3	1	1	0	1	0	0	0
194	7	3	0	1	0	0	1	0	0
194	7	4	1	0	0	0	0	0	0
194	7	4	0	2	0	2	0	0	0
194	7	5	0	1	1	1	0	0	1
194	7	5	1	0	0	0	0	0	0
194	7	6	1	0	0	0	0	0	0
194	7	6	0	3	0	3	0	0	1

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
194	7	7	0	1	1	1	0	0	0
194	7	7	1	1	0	1	0	0	0
194	7	8	0	0	0	0	0	0	0
194	7	8	1	1	1	1	0	0	0
194	7	9	0	4	2	4	0	0	0
194	7	9	1	2	1	2	0	0	0
194	7	10	0	1	0	1	0	0	0
194	7	10	1	2	0	2	0	0	0
195	**1**	**1**	**1**	**4**	**2**	**4**	**0**	**0**	**0**
195	1	1	0	2	1	2	0	1	0
195	1	2	1	2	0	2	0	0	0
195	1	2	0	7	3	6	1	0	0
195	1	3	1	2	1	2	0	0	0
195	1	3	0	2	1	1	1	0	0
195	1	4	1	3	1	2	1	0	0
195	1	4	0	6	2	4	2	0	0
195	1	5	0	3	2	2	1	0	0
195	1	5	1	1	1	1	0	0	0
195	1	6	1	6	2	6	0	0	0
195	1	6	0	5	1	4	1	0	0
195	1	7	0	4	2	4	0	0	0
195	1	7	1	4	0	4	0	0	0
195	1	8	0	1	0	1	0	0	0
195	1	8	1	6	3	6	0	0	0
195	1	9	0	6	1	5	1	0	0
195	1	9	1	4	3	4	0	0	0
195	1	10	0	10	4	9	1	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
195	1	10	1	11	7	11	0	0	0
196	**2**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
196	2	1	0	1	0	1	0	0	0
196	2	2	1	0	0	0	0	0	0
196	2	2	0	4	0	4	0	0	0
196	2	3	1	0	0	0	0	0	0
196	2	3	0	1	0	1	0	0	0
196	2	4	1	1	0	1	0	0	0
196	2	4	0	1	0	1	0	0	0
196	2	5	0	2	0	2	0	0	0
196	2	5	1	0	0	0	0	0	0
196	2	6	1	3	2	3	0	0	0
196	2	6	0	3	1	3	0	0	0
196	2	7	0	0	0	0	0	0	0
196	2	7	1	1	0	1	0	0	0
196	2	8	0	1	1	1	0	0	0
196	2	8	1	2	1	2	0	0	0
196	2	9	0	2	1	2	0	0	0
196	2	9	1	1	0	1	0	0	0
196	2	10	0	5	0	5	0	0	0
196	2	10	1	1	1	1	0	0	0
197	**3**	**1**	**1**	**1**	**1**	**1**	**0**	**0**	**0**
197	3	1	0	3	2	3	0	0	0
197	3	2	1	1	0	1	0	0	0
197	3	2	0	3	2	3	0	1	0
197	3	3	1	0	0	0	0	0	0
197	3	3	0	2	0	2	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
197	3	4	1	0	0	0	0	0	0
197	3	4	0	1	0	1	0	1	0
197	3	5	0	0	0	0	0	0	0
197	3	5	1	0	0	0	0	0	0
197	3	6	1	3	1	3	0	0	0
197	3	6	0	1	0	1	0	0	0
197	3	7	0	2	0	1	1	0	0
197	3	7	1	0	0	0	0	0	0
197	3	8	0	2	0	1	1	0	0
197	3	8	1	2	1	1	1	0	0
197	3	9	0	3	0	3	0	1	0
197	3	9	1	4	0	1	3	0	0
197	3	10	0	5	3	5	0	0	0
197	3	10	1	0	0	0	0	0	0
198	**4**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
198	4	1	0	0	0	0	0	0	0
198	4	2	1	2	0	2	0	0	0
198	4	2	0	1	0	1	0	0	0
198	4	3	1	0	0	0	0	0	0
198	4	3	0	1	0	1	0	0	0
198	4	4	1	0	0	0	0	0	0
198	4	4	0	1	1	1	0	0	0
198	4	5	0	3	1	2	1	0	1
198	4	5	1	0	0	0	0	0	0
198	4	6	1	2	1	2	0	0	0
198	4	6	0	4	0	4	0	0	1
198	4	7	0	3	0	3	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
198	4	7	1	0	0	0	0	0	0
198	4	8	0	0	0	0	0	0	0
198	4	8	1	3	1	3	0	0	0
198	4	9	0	3	2	3	0	0	0
198	4	9	1	1	1	1	0	0	0
198	4	10	0	3	1	3	0	0	0
198	4	10	1	0	0	0	0	0	0
199	**5**	**1**	**1**	**1**	**0**	**1**	**0**	**0**	**0**
199	5	1	0	2	1	2	0	0	0
199	5	2	1	2	0	2	0	0	0
199	5	2	0	8	3	6	2	0	1
199	5	3	1	2	1	2	0	0	0
199	5	3	0	4	1	4	0	0	0
199	5	4	1	0	0	0	0	0	0
199	5	4	0	3	2	3	0	0	0
199	5	5	0	1	0	1	0	0	0
199	5	5	1	0	0	0	0	0	0
199	5	6	1	0	0	0	0	0	0
199	5	6	0	2	1	2	0	0	0
199	5	7	0	1	0	1	0	0	0
199	5	7	1	2	0	2	0	0	0
199	5	8	0	0	0	0	0	0	0
199	5	8	1	0	0	0	0	0	0
199	5	9	0	6	2	6	0	0	0
199	5	9	1	1	1	1	0	0	0
199	5	10	0	1	0	1	0	0	0
199	5	10	1	0	0	0	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
201	**7**	**1**	**1**	**1**	**1**	**1**	**0**	**0**	**1**
201	7	1	0	3	2	2	1	0	0
201	7	2	1	0	0	0	0	0	0
201	7	2	0	5	1	4	1	0	0
201	7	3	1	2	2	2	0	0	0
201	7	3	0	6	1	6	0	0	0
201	7	4	1	2	0	2	0	0	0
201	7	4	0	6	4	5	1	0	0
201	7	5	0	3	2	3	0	0	0
201	7	5	1	1	0	1	0	0	0
201	7	6	1	1	1	1	0	0	0
201	7	6	0	4	0	4	0	0	0
201	7	7	0	3	1	2	1	0	0
201	7	7	1	1	1	1	0	0	0
201	7	8	0	1	0	1	0	0	0
201	7	8	1	4	2	4	0	0	0
201	7	9	0	3	1	2	0	0	0
201	7	9	1	1	0	1	0	0	0
201	7	10	0	1	0	1	0	0	1
201	7	10	1	1	0	1	0	0	0
202	**1**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
202	1	1	0	0	0	0	0	0	0
202	1	2	1	2	0	2	0	0	0
202	1	2	0	7	5	7	0	0	0
202	1	3	1	3	1	3	0	0	0
202	1	3	0	2	2	2	0	0	0
202	1	4	1	4	2	4	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
202	1	4	0	6	3	4	2	0	0
202	1	5	0	4	3	4	0	0	0
202	1	5	1	2	1	2	0	0	0
202	1	6	1	6	4	5	1	0	0
202	1	6	0	3	1	3	0	0	0
202	1	7	0	4	0	4	0	0	0
202	1	7	1	3	1	2	1	0	0
202	1	8	0	1	1	1	0	0	0
202	1	8	1	4	1	3	1	0	0
202	1	9	0	11	6	10	1	0	0
202	1	9	1	4	1	4	0	0	0
202	1	10	0	2	1	2	0	0	0
202	1	10	1	3	3	3	0	0	0
203	**2**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
203	2	1	0	3	2	3	0	0	1
203	2	2	1	2	0	2	0	0	0
203	2	2	0	7	4	4	0	0	0
203	2	3	1	3	2	3	0	0	0
203	2	3	0	4	3	4	0	0	0
203	2	4	1	2	1	1	1	0	0
203	2	4	0	5	2	4	1	0	0
203	2	5	0	6	4	5	1	0	0
203	2	5	1	0	0	0	0	0	0
203	2	6	1	2	1	2	0	0	0
203	2	6	0	6	1	6	0	0	2
203	2	7	0	2	0	2	0	0	0
203	2	7	1	6	3	3	3	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
203	2	8	0	1	1	1	0	0	0
203	2	8	1	3	1	3	0	0	0
203	2	9	0	4	1	3	1	0	0
203	2	9	1	4	2	4	0	0	0
203	2	10	0	2	0	1	1	0	0
203	2	10	1	2	0	2	0	0	0
204	**3**	**1**	**1**	**1**	**1**	**1**	**0**	**0**	**0**
204	3	1	0	4	4	4	0	0	0
204	3	2	1	0	0	0	0	0	0
204	3	2	0	8	3	7	1	0	0
204	3	3	1	0	0	0	0	0	0
204	3	3	0	2	0	1	1	0	1
204	3	4	1	1	0	0	1	0	0
204	3	4	0	7	3	5	2	0	0
204	3	5	0	2	1	2	0	0	0
204	3	5	1	0	0	0	0	0	0
204	3	6	1	1	1	1	0	0	0
204	3	6	0	4	0	4	0	0	2
204	3	7	0	0	0	0	0	1	0
204	3	7	1	4	1	4	0	0	0
204	3	8	0	1	1	0	1	0	0
204	3	8	1	4	2	4	0	0	0
204	3	9	0	7	3	6	1	0	0
204	3	9	1	2	2	2	0	0	0
204	3	10	0	1	1	1	0	0	0
204	3	10	1	1	1	0	1	0	0
205	**4**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
205	4	1	0	2	2	2	0	0	0
205	4	2	1	0	0	0	0	0	0
205	4	2	0	2	2	2	0	0	0
205	4	3	1	2	1	2	0	0	0
205	4	3	0	2	1	2	0	0	0
205	4	4	1	3	3	3	0	0	0
205	4	4	0	2	1	2	0	0	1
205	4	5	0	3	1	2	1	0	0
205	4	5	1	2	1	2	0	0	0
205	4	6	1	0	0	0	0	0	0
205	4	6	0	1	0	1	0	0	0
205	4	7	0	2	1	2	0	0	0
205	4	7	1	2	1	2	0	0	0
205	4	8	0	3	3	2	1	0	0
205	4	8	1	2	1	2	0	0	0
205	4	9	0	3	2	3	0	0	0
205	4	9	1	1	0	1	0	0	0
205	4	10	0	1	1	1	0	1	1
205	4	10	1	2	2	2	0	0	0
206	**5**	**1**	**1**	**1**	**1**	**1**	**0**	**0**	**0**
206	5	1	0	1	0	1	0	0	0
206	5	2	1	2	1	2	0	0	0
206	5	2	0	1	0	1	0	0	0
206	5	3	1	1	1	1	0	0	0
206	5	3	0	0	0	0	0	0	0
206	5	4	1	1	1	1	0	0	0
206	5	4	0	4	2	3	1	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
206	5	5	0	0	0	0	0	0	1
206	5	5	1	0	0	0	0	0	0
206	5	6	1	1	0	1	0	0	0
206	5	6	0	3	1	3	0	0	0
206	5	7	0	7	3	7	0	0	0
206	5	7	1	1	1	1	0	0	0
206	5	8	0	1	0	1	0	0	0
206	5	8	1	2	2	2	0	0	0
206	5	9	0	2	1	2	0	0	0
206	5	9	1	2	0	2	0	0	0
206	5	10	0	1	1	1	0	3	0
206	5	10	1	1	1	1	0	0	0
208	**7**	**1**	**1**	**2**	**2**	**2**	**0**	**0**	**0**
208	7	1	0	3	0	3	0	0	0
208	7	2	1	1	2	1	0	0	0
208	7	2	0	4	0	4	0	0	0
208	7	3	1	1	2	1	0	0	0
208	7	3	0	3	1	3	0	0	1
208	7	4	1	2	1	2	0	0	0
208	7	4	0	1	2	1	0	0	0
208	7	5	0	4	0	3	1	0	1
208	7	5	1	1	1	1	0	0	0
208	7	6	1	3	0	3	0	0	0
208	7	6	0	4	1	4	0	0	0
208	7	7	0	2	0	2	0	0	0
208	7	7	1	2	0	2	0	0	0
208	7	8	0	1	0	1	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
208	7	8	1	2	1	2	0	0	0
208	7	9	0	8	4	6	2	0	0
208	7	9	1	3	1	2	1	0	0
208	7	10	0	4	1	2	2	0	0
208	7	10	1	0	0	0	0	0	0
209	**8**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
209	8	1	0	1	0	1	0	0	0
209	8	2	1	5	3	5	0	0	0
209	8	2	0	5	3	5	0	0	0
209	8	3	1	3	1	3	0	0	0
209	8	3	0	2	1	2	0	0	0
209	8	4	1	4	3	4	0	0	0
209	8	4	0	3	3	3	0	0	1
209	8	5	0	2	1	2	0	0	1
209	8	5	1	0	0	0	0	0	0
209	8	6	1	3	0	3	0	0	0
209	8	6	0	2	0	2	0	0	3
209	8	7	0	0	0	0	0	0	0
209	8	7	1	3	2	3	0	0	0
209	8	8	0	4	1	4	0	0	1
209	8	8	1	3	0	3	0	0	0
209	8	9	0	3	2	2	1	0	0
209	8	9	1	1	1	1	0	0	0
209	8	10	0	2	1	2	0	0	0
209	8	10	1	0	0	0	0	0	0
210	**9**	**1**	**1**	**1**	**1**	**1**	**0**	**0**	**0**
210	9	1	0	4	3	4	0	1	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
210	9	2	1	2	1	2	0	0	0
210	9	2	0	7	4	5	2	0	0
210	9	3	1	2	1	2	0	0	0
210	9	3	0	4	2	3	1	0	0
210	9	4	1	2	0	2	0	0	0
210	9	4	0	5	1	5	0	0	0
210	9	5	0	3	1	3	0	0	0
210	9	5	1	0	0	0	0	0	0
210	9	6	1	3	2	3	0	0	0
210	9	6	0	6	2	5	1	0	1
210	9	7	0	2	0	2	0	0	0
210	9	7	1	4	1	4	0	0	0
210	9	8	0	1	1	1	0	0	0
210	9	8	1	0	0	0	0	0	0
210	9	9	0	3	1	3	0	0	0
210	9	9	1	0	0	0	0	0	0
210	9	10	0	1	1	1	0	3	0
210	9	10	1	2	2	2	0	0	0
211	**10**	**1**	**1**	**3**	**1**	**3**	**0**	**0**	**0**
211	10	1	0	3	1	3	0	0	0
211	10	2	1	0	0	0	0	0	0
211	10	2	0	3	1	3	0	0	0
211	10	3	1	1	1	1	0	0	0
211	10	3	0	4	1	4	0	0	1
211	10	4	1	3	2	2	1	0	0
211	10	4	0	1	0	1	0	0	0
211	10	5	0	3	2	3	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
211	10	5	1	1	1	1	0	0	0
211	10	6	1	2	1	2	0	0	0
211	10	6	0	4	3	4	0	0	0
211	10	7	0	2	1	2	0	0	0
211	10	7	1	1	0	1	0	0	0
211	10	8	0	3	1	3	0	1	1
211	10	8	1	1	0	1	0	0	0
211	10	9	0	3	3	2	1	0	0
211	10	9	1	2	0	2	0	0	0
211	10	10	0	2	1	2	0	0	0
211	10	10	1	0	0	0	0	0	0
212	**11**	**1**	**1**	**1**	**0**	**1**	**0**	**0**	**0**
212	11	1	0	2	2	2	0	0	0
212	11	2	1	3	2	3	0	0	0
212	11	2	0	5	4	4	1	0	0
212	11	3	1	2	1	2	0	0	0
212	11	3	0	0	0	0	0	0	0
212	11	4	1	0	0	0	0	0	0
212	11	4	0	2	2	2	0	0	1
212	11	5	0	1	0	1	0	0	1
212	11	5	1	0	0	0	0	0	0
212	11	6	1	0	0	0	0	0	0
212	11	6	0	3	2	3	0	0	0
212	11	7	0	1	1	1	0	0	0
212	11	7	1	1	1	1	0	0	0
212	11	8	0	1	0	1	0	0	0
212	11	8	1	1	1	1	0	0	0

Julian Day	Days Since Baiting	Pair (1-10)	Excluder (0-1)	Total Crabs (#)	Marketable Crabs (#)	Males (#)	Females (#)	Turtle By-catch (#)	Fish By-catch (#)
212	11	9	0	2	0	2	0	0	0
212	11	9	1	1	1	1	0	0	0
212	11	10	0	1	1	1	0	2	0
212	11	10	1	0	0	0	0	0	0

Appendix 2: Terrapin Population Data, part of S. M. Wilson Summer Study

Date, t	Number of turtles caught, C	Number of recaptures, R	Number newly marked (less deaths)	Marked turtles at large, M
8-Jun	11	0	11	0
9-Jun	3	0	3	11
10-Jun	13	3	10	14
11-Jun	5	0	4	24
13-Jun	13	2	11	28
15-Jun	21	0	21	39
16-Jun	4	3	1	60
17-Jun	4	2	2	61
18-Jun	1	1	0	63
19-Jun	2	1	1	63
20-Jun	2	2	0	64
22-Jun	7	5	2	64
23-Jun	1	1	0	66
24-Jun	3	2	1	66
25-Jun	1	0	1	67
29-Jun	6	2	4	68
30-Jun	1	1	0	72
1-Jul	2	2	0	72
2-Jul	5	3	2	72
3-Jul	5	4	1	74
7-Jul	3	0	3	75
8-Jul	1	0	1	78
9-Jul	2	0	2	79
10-Jul	1	0	1	81
11-Jul	1	1	0	82
13-Jul	1	0	1	82

Date, t	Number of turtles caught, C	Number of recaptures, R	Number newly marked (less deaths)	Marked turtles at large, M
15-Jul	1	0	1	83
17-Jul	2	2	0	84
18-Jul	2	1	1	84
20-Jul	4	0	4	85
21-Jul	1	0	1	89
24-Jul	1	0	1	90
26-Jul	1	0	1	91
28-Jul	6	2	4	92
29-Jul	3	3	0	96
30-Jul	1	1	0	96
31-Jul	2	1	1	96